

US PATENT & TRADEMARK OFFICE
PATENT APPLICATION FULL TEXT AND IMAGE DATABASE

(1 of 1)

United States Patent Application**20020107505****Kind Code****A1****Holladay, Leslie A.****August 8, 2002****Modification of polypeptide drugs to increase electrotransport flux****Abstract**

Methods of modifying polypeptide drugs in order to enhance their transdermal electrotransport flux are provided. The polypeptide is modified by substituting a histidine residue (His) for one or more glutamine (Gln), threonine (Thr) and/or asparagine (Asn) residue(s). The His for Gln substitution is particularly preferred from the standpoint of retaining biological activity of the parent polypeptide. Compositions containing the modified polypeptide, which are useful for transdermal electrotransport delivery, are also provided.

Inventors: Holladay, Leslie A.; (Sunnyvale, CA)**Correspondence** MICHAEL BEST & FRIEDRICH, LLP**Name and** ONE SOUTH PINCKNEY STREET**Address:** P O BOX 1806

MADISON

WI

53701

Assignee Name Alza Corporation**and Adress:** Mountain View

CA

Serial No.: 016403**Series Code:** 10**Filed:** December 10, 2001**U.S. Current Class:** 604/522; 424/9.322; 604/20**U.S. Class at Publication:** 604/522; 424/9.322; 604/20**Intern'l Class:** A61M 031/00